

Michael David Clark

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Interested in

Translational research in neuroscience and imaging.

Education

2011 -

University of North Carolina School of Medicine

Ph.D., Expected May 2017

Curriculum in Human Movement Science, Minor in Biostatistics

Thesis: The Role of Repetitive Head Trauma in Early Cognitive Decline and Frontolimbic Dysfunction

Adviser: Kevin Guskiewicz

M.D., Expected May 2019

2007 - 11

B.S., University of North Carolina at Chapel Hill

Chemistry with Distinction

2009 - 10

University of Oxford, St. Anne's College

Visiting Student Program in Biochemistry

Publications

Articles

Clark MD, Asken B, Marshall S, Guskiewicz K. Descriptive Characteristics of Concussions in National Football League Games, 2010-11 to 2013-14. *American Journal of Sports Medicine*. (Accepted)

Powierza C & **Clark MD**, Hughes J, Carneiro K, Mihalik J. Validation of a self-monitoring tool for use in post-concussion therapy. *PM&R*. (In review)

Lynall R, **Clark MD**, Grand E, Stucker J, Littleton A, Aguilar A, Petschauer M, Teel E, Mihalik J. [Head Impact Biomechanics in Women's College Soccer](#). *Med Sci Sports Exerc*. 2016;48(9):1772-1778.

Rose AE, Poliseno L, Wang J, **Clark MD**, Pearlman A, Wang G, Vega y Saenz de Miera EG, Medicherla R, Christos PJ, Shapiro R, Pavlick A, Darvishian F, Zavadij J, Polsky D, Hernando E, Ostrer H, and Osman I. [Integrative Genomics Identifies Molecular Alterations that Challenge the Linear Model of Melanoma Progression](#). *Cancer Research*. 2010;71:2561-2571.

Chapters

Clark MD, Guskiewicz K. [Sport-Related Traumatic Brain Injury](#). In: Laskowitz D, Grant G, eds. *Translational Research in Traumatic Brain Injury*. Boca Raton, FL: CRC Press; 2015:17-32.

Abstracts

Clark MD, Carneiro K, Fraser M, Mihalik J, Guskiewicz K. [Exacerbation of Anxiety and Depression Symptoms following Concussion in a High School Softball Athlete](#). *Med Sci Sports Exerc*. 2016;48(5 Suppl 1):676-677.

Powierza C, **Clark MD**, Hughes J, Carneiro K, Mihalik J. [Validation Of A Self-monitoring Tool For Use In Post-concussion Syndrome Therapy](#) *Med Sci Sports Exerc*. 2016;48(5 Suppl 1):798.

Champagne A & **Clark MD**, Shi F, Shen D, Guskiewicz K. [Association between Football Exposure, Position, and Concussion History on White Matter Integrity](#). Radiological Society of North America Scientific Assembly and Annual Meeting, 2015.

Clark MD, Kuzminski S, Guskiewicz K, Pretrella J. [Changes in Resting State Functional Connectivity Across a Season of High School Football](#). *Neurology*. 2015;84(14 Supplement)

Clark MD, Shi F, Smith J, Mihalik J, Shen D, Guskiewicz K. [No Evidence of Altered White Matter Integrity Following Sport-Related Concussion](#). *Journal of Athletic Training*. 2015;50(6 Supplement): S-1-S-312.

Kuzminski S, **Clark MD**, Fraser M, Prescott J, Guskiewicz K, Petrella J. [Changes in Structural Connectivity Across a High School Football Season](#). Radiological Society of North America Scientific Assembly and Annual Meeting, 2014.

Presentations

National

2016

Poster: National MD-PhD Student Conference. Keystone, CO.

2016

Podium: American College of Sports Medicine. Boston, MA.

2015

Podium: American Academy of Neurology - Sports Concussion Meeting. Denver, CO.

2015

Podium: American Academy of Neurology Annual Meeting. Washington, DC.

2014

Poster: National Athletic Trainers' Association Annual Meeting. St. Louis, MO.

Regional

2015

Poster: Multi-Modal Neuroimaging Training Program Summer Symposium. Pittsburgh, PA.

2013

Poster: Human Movement Science Research Symposium. Chapel Hill, NC.

2012 Poster: John B. Graham Medical Student Research Day. Chapel Hill, NC.
2010 Podium: Leadership Alliance National Symposium. East Brunswick, NJ.
2010 Poster: NYU Summer Undergraduate Research Day. New York, NY.

Invited

2016 National Athletic Trainers' Association. Baltimore, MD.
2016 Neurology Grand Rounds. UNC School of Medicine.
2015 Radiology Grand Rounds. UNC School of Medicine.
2015 [Matthew Gfeller Sport-Related Neurotrauma Symposium](#). Chapel Hill, NC.

Fellowships and Awards

2016 - \$50k Pilot Grant. North Carolina Translational and Clinical Sciences Institute, 550KR121512.
2015 - Ruth L. Kirschstein National Research Service Award (F30). National Institute of Neurological Disorders and Stroke, NS090816.
2015 Summer Fellow, Multi-modal Neuroimaging Training Program. Universities of Pittsburgh and Carnegie Mellon.
2015 Finalist, Doctoral Student Poster Award. Natl. Athletic Trainers' Assoc.
2014 Exercise and Sports Science Travel Award, UNC-Chapel Hill.
2010 Summer Undergraduate Research Program, New York University.
2007 United States Marine Corps Foundation Scholarship.

Research

2013 - **Graduate Research Assistant**, [Matthew Gfeller Sport-Related TBI Research Center](#), Chapel Hill, NC
Mentor: Kevin Guskiewicz, PhD
Thesis: The Role of Repetitive Head Trauma in Early Cognitive Decline and Frontolimbic Dysfunction

2015 **Multi-Modal Neuroimaging Training Program Summer Fellow**, [Brain Aging and Cognitive Health Lab](#), Pittsburgh, PA
Mentor: Kirk Erickson, PhD
Project: Sex differences in response to a visual food cue fMRI task.

2008 - 11 **Undergraduate Research Assistant**, [UNC Neuroscience Center](#), Chapel Hill, NC
Mentor: Glenn Matsushima, PhD
Project: Regulation of innate immunity in a murine model of systemic lupus erythematosus.

2010 **Summer Research Intern**, [NYU Interdisciplinary Melanoma Cooperative Group](#), New York, NY
Mentor: Iman Osman, MD & Laura Poliseno, PhD
Project: Genetic and epigenetic regulation of *ALDH7A1* in superficial-spreading and nodular melanoma.

2010 **Undergraduate Research Assistant**, [Weatherall Institute of Molecular Medicine](#), Oxford, England
Mentor: Peter McHugh, DPhil & Lonnie Swift, PhD
Project: Effects of the chemotherapeutic agent oxaliplatin on tumors with mutations in DNA repair genes, XPF and ERCC1.

Teaching

2015 Lead Instructor, EXSS 275L: Human Cadaver Anatomy.
2014 Teaching Assistant, EXSS 175: Human Anatomy.
2013 Teaching Assistant, EXSS 732: Human Gross Anatomy for Athletic Trainers.
2013 - 14 Tutor, UNC School of Medicine.

Activities

2015 - Contributing Editor, UNC Science Writing and Communication Club.
2016 Reviewer, International Journal of Sports Medicine.
2015 Director of Bridge-to-Care Continuity Clinic, Student Health Action Coalition.
2015 Organizing Committee, Human Movement Science and Biomechanics Research Symposium.
2014 - 15 Medical Team Coordinator, Student Health Action Coalition Free Clinic.